

KOMP PCR Design

Mouse PCR Protocol (version 1JE)

Design ID: 108507

Project ID: CSD27607

Selection Cassette: L1L2_Bact_P



MMRRC Stock #: 048893-UCD

C57BL/6N-Atm1Brd Odc1tm1a(EUCOMM)Hmgu/
JMmucd

Suggested DNA Prep: DNeasy®Tissue Kit

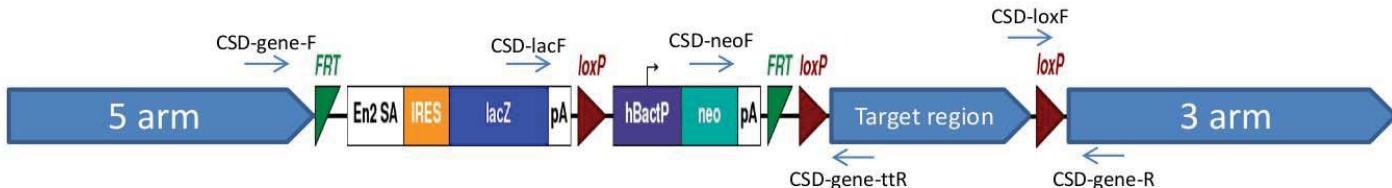
Reagent	1X (µL)
water (biological grade)	10.725
betain 5M (Sigma)	6.5
DMSO (Sigma)	0.325
10X buffer w/o MgCl ₂ (AB)	2.5
25 mM MgCl ₂ (AB)	1.75
10 mM dNTPs (Invitrogen)	0.5
primers (20 µM each)	0.5
Taq 5U/µL (AmpliTaq, AB)	0.2
total cocktail	23
template	2
reaction volume	25

Cycling Parameters	
Temperature °C	Time
94	5 min
94	15 sec
65	30 sec
72	40 sec
94	15 sec
55	30 sec
72	40 sec
72	5 min
4	finished

10X (decrease 1°C/cycle)

30X

Primer Strategy



Cassette Primers

CSD-lacF: GCTACCATTACCAGTTGGTCTGGTGT
CSD-neoF: GGGATCTCATGCTGGAGTTCTCG
CSD-loxF: GAGATGGCGAACGCAATTATG

Gene Specific Primers

CSD-R: TGCACCACAGGTACAAATGCC
CSD-ttR: CATGCCAAGATAAACCTCCTTCC
CSD-F: AAAAGGTGCCAAACAAACAAGTGG

Genotype Forward Primer Reverse Primer Amplicon size (bp)

Genotype	Forward Primer	Reverse Primer	Amplicon size (bp)
Floxed	CSD-loxF	CSD-R	305
PreCre	CSD-neoF	CSD-ttR	557
PostCre	CSD-lacF	CSD-R	603
Wildtype	CSD-F	CSD-ttR	234
PostFlp	CSD-F	CSD-ttR	437
PostFlp & Cre	CSD-F	CSD-R	532

Please note, these primers are auto-designed and may not have been verified by the repository, and as such may require optimization or redesign by your facility.

We recommend running primers singleplex. For screening of pups prior to any Flp or Cre recombination, the Floxed or PreCre primers may be used to identify the mutant mice. The Floxed primers test for the distal LoxP site. The PostCre primers should be used if mutant mice were crossed with a Cre recombinase line (without any FLP recombination). The PostFlp primers should be used if mutant mice were crossed with a Flp recombinase line. The PostFlp & Cre primers should be used if mutant mice were crossed with a Flp recombinase line and then a Cre recombinase line. The wildtype primers should be used for zygosity testing of all mutant mice (pre or post recombination).